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# (12) United States Patent

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### CAL

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# (54) METHOD FOR GENERATING A MEDICAL NETWORK

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*H04B 13/00* (52) **U.S. Cl.** 

CPC ....... H04B 13/005 (2013.01); H04W 84/18

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(58) Field of Classification Search

#### (56) References Cited

#### U.S. PATENT DOCUMENTS

6,315,719 B1 11/2001 Rode et al. 6,542,717 B1 4/2003 Zimmerman et al. 7,161,484 B2 1/2007 Tsoukalis 7,163,511 B2 (Continued)

#### FOREIGN PATENT DOCUMENTS

EP 1382363 \* 1/2004 ....... A61M 5/1723 EP 1676525 B1 4/2009 (Continued)

#### OTHER PUBLICATIONS

K. Küpfmüller et al.: Theoretische Elektrotechnik: Eine Einführung, 10. Auflage, Springer Verlag, Berlin, S. 333. English translation is also attached.

(Continued)

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#### (57) ABSTRACT

A method for setting up a medical network for carrying out at least one medical function is disclosed. The medical network comprises network nodes and the network nodes are set up for communicating with one another by an initialization step, wherein the network nodes exchange initialization information that includes information characterizing the network nodes and a self-organization step where the network nodes define their role distribution. A work step where the network carries out the medical function and the two network nodes interact in the role of distribution defined in the self-organization step.

#### 12 Claims, 3 Drawing Sheets

